SUPPLEMENTARY MATERIAL

	Factor 1
CLC	**0.928**
PL	**-0.725**
D	**0.897**

Structural network

	Factor 1	Factor 2
CLC pre-stimulus	-0.167	**0.935**
PL pre-stimulus	-0.088	**0.934**
D pre-stimulus	-0.229	**0.570**
CLC modulation	**0.889**	-0.302
PL modulation	**0.870**	-0.253
D modulation	**0.856**	-0.029

Functional theta band

	Factor 1	Factor 2	Factor 3
CLC pre-stimulus	0.059	**0.900**	0.388
PL pre-stimulus	0.131	**0.960**	-0.110
D pre-stimulus	-0.085	0.158	0.**923**
CLC modulation	**0.936**	0.163	0.080
PL modulation	**0.929**	0.037	0.081
D modulation	0.429	-0.014	**0.739**

Functional global band

	Factor 1
Verbal memory	**0.783**
Working memory	**0.794**
Motor speed	**0.505**
Verbal fluency	**0.710**
Performance speed	**0.806**
Tower of London	**0.654**
Perseverative errors	**-0.608**

Cognitive scores

Table S1. Factor structure of connectivity networks and cognitive scores. Results of the principal components analyses performed to obtain factor scores for structural and functional (global band and theta band) networks and cognitive performance. The variables included in each component are boldfaced.

	Schizophrenia	Controls	*p*-value
P300 amplitude (μV)	2.15 ± 1.56	2.9863 ± 1.62	0.0086
P300 latency (ms)	435.38 ± 70.35	454.68 ± 71.89	0.1698

Table S2. P300 latency and amplitude at Pz electrode.

	Structural PL	Global band density	Theta band density	Theta band modulation
FE	1.014(0.005)	0.313 (0.064)	0.346 (0.029)	0.001 (0.020)
Chronic	1.023 (0.112)*	0.338 (0.083)	0.373 (0.047)	-0.001 (0.190)

Table S3. Mean values and comparison between first-episode and chronic schizophrenia patients for the network variables with significant differences between patients and healthy controls. * Significantly higher in chronic patients (Mann-Whitney *U*-test, p=0.009).

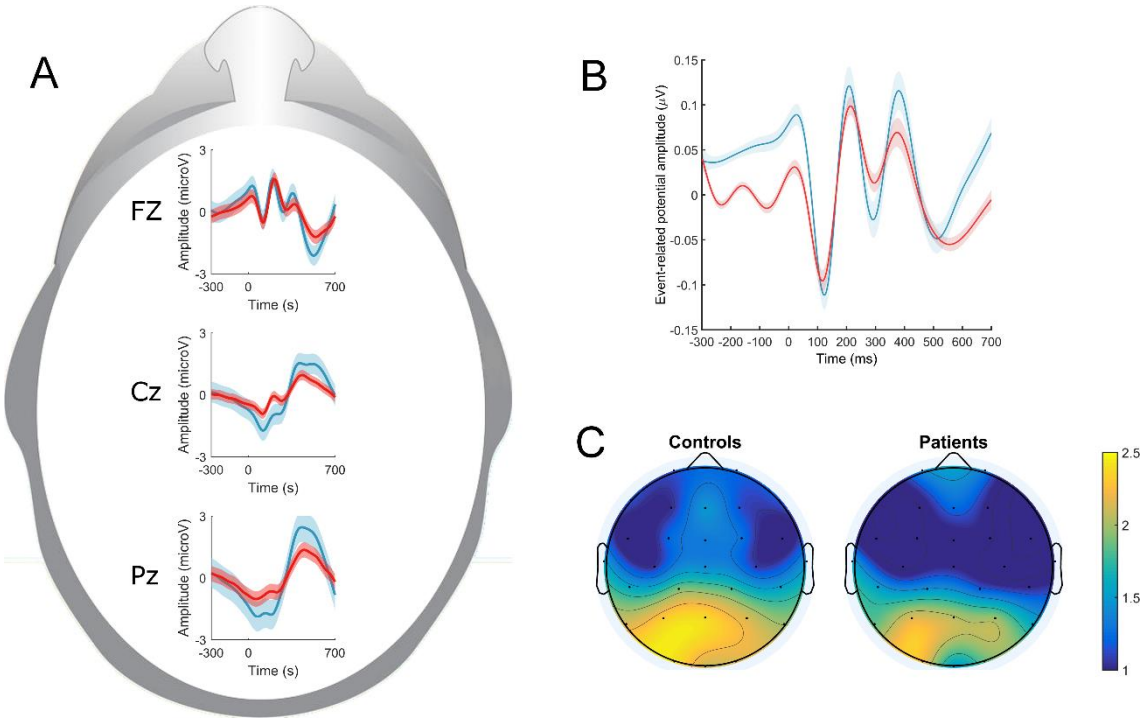

Figure S1. (A) P300 waveforms in the middle line of the brain scalp (Fz, Cz and Pz electrodes) for controls (blue) and patients (red). (B) Channel grand average waveforms in the target condition for controls (blue) and patients (red). (C) Scalp map depicting the P300 peak amplitude for controls and patients.

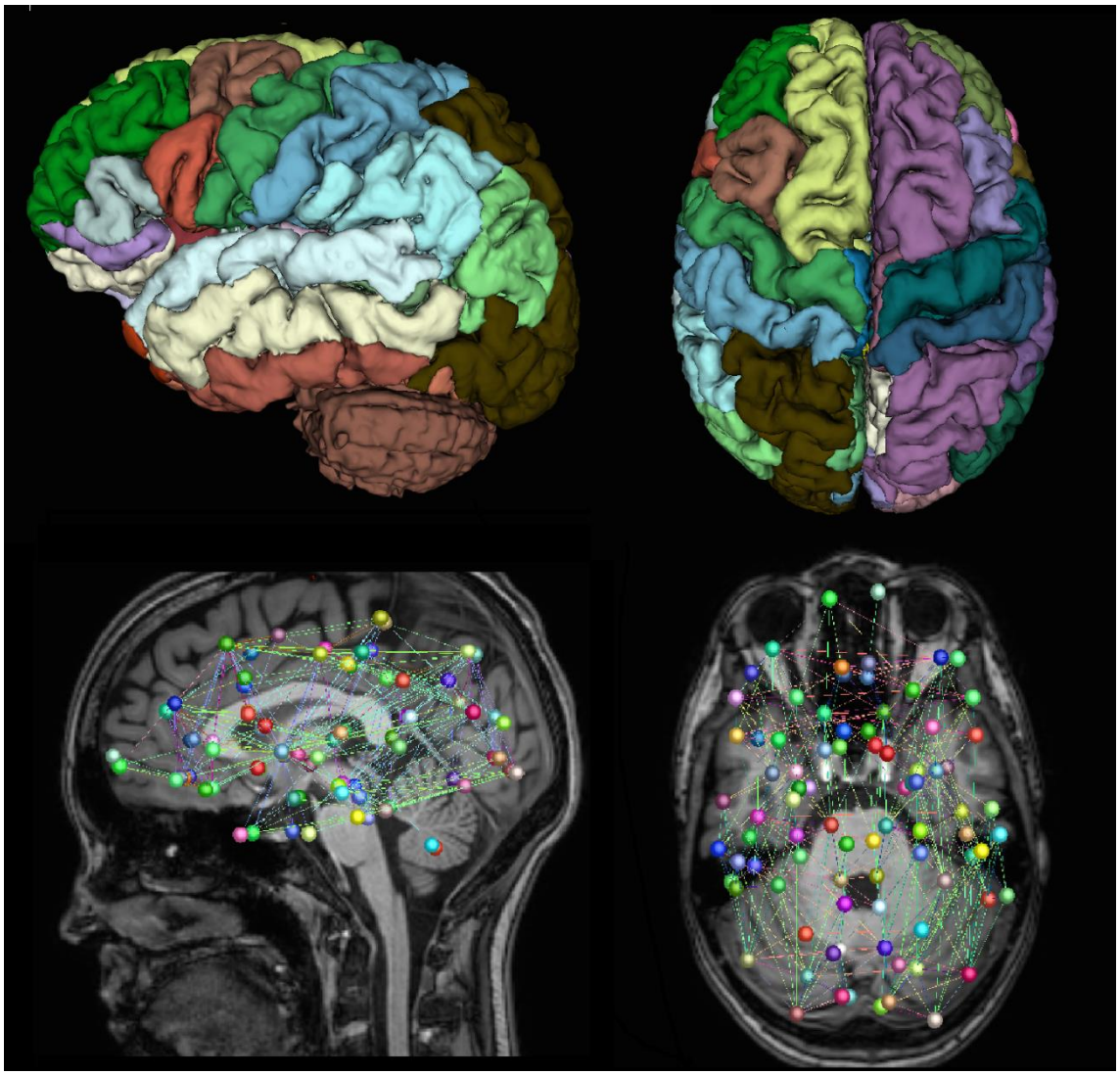

Figure S2. Upper row: Lateral and superior views of the regions from which the structural connectivity matrix was built. Lower row: Lateral and superior views of hypothetical dMRI network based on segmented regions.